Georgia Cancer Center Small Animal Imaging Shared Resource at Augusta University provides advanced imaging for research studies in disease, injury, and normal function. The major focus areas of animal studies include brain tumors, liver tumors, breast cancers, traumatic brain injury, stroke, aging, neurodegenerative diseases, and metabolic disorders. The GCC Small Animal Imaging Resource and The Georgia Cancer Center support an experienced team of scientists who develop novel experimental approaches in magnetic resonance imaging, single photon emission computed tomography, CT and optical imaging, and collaborate with investigators from other institutions. The Resource currently houses two 7 Tesla Bruker MRI scanners, 4 headed nanoScan micro SPECT/CT, multispectral AmiX optical imaging system, bench top high intensity focal ultrasound (HIFU), and SAARP irradiator. The current projects (MRI) include, but are not limited to, routine T1, T2, T2*, ultrashort T2*, look-a-locker and other T1 mapping, DCE MRI (dual and single gradient), DWI (multi b-values), DTI, arterial spin labeling, BOLD techniques, chemical shift, and MRS.

The GCC Small Animal Imaging Shared Resource is an immediate opening for an MR scientist/physicist to assume the Directorship of the MRI Imaging section of the Small Animal Imaging Shared Resource. The incumbent will be responsible for conducting day-to-day operation and research studies using 7 Tesla MRI systems. This qualified, experienced and client-oriented appointee will work alongside imaging scientists and collaborators to design and carry out research studies and train users. Other responsibilities will include developing data acquisition and analysis protocols, maintaining the 7T system and quality assurance. The preferred background includes biomedical engineering, physics, chemistry or related field. Individuals with experience in operating and maintaining animal MRI/MRS systems and holding a Ph.D. will be preferred. Candidates with experience with MR imaging and spectroscopy (MRI/MRS) pulse sequence design, data analysis programming, instrumental hardware and software will be an advantage. Applicants that have experience working in a research core environment will be given priority. The following will be expected from the successful candidate:

- At least 1 year experience using a Bruker or similar preclinical MR system and the Bruker or similar consoles.
• Experience in the daily maintenance and running of MR systems and trouble shooting.
• Ability to communicate and train an imaging technician to run the MR systems on a routine basis.
• Work to improve existing pulse sequences and design new sequences to respond to different user applications.
• Work with investigators to improve the image (MR based) analysis techniques and train the users for image analysis.
• Knowledge of image analysis programing will be a plus.
• This is a non-tenure track position. It is not mandated to have active research by the successful candidate however, collaborative research and applications for funding are encouraged.
• Experience in Directing or working in a research core.

Interested individuals are encouraged to send their Curriculum Vitae to
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